Form PTQ-1449 (REV. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. UCAL-253/02US #4	SERIAL NO. 09/281,717
	INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	APPLICANT: John D. Baxter, et al.	
		FILING DATE March 30, 1999	GROUP ~~1648~~ 1631

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
MD.	P1	5,331,573	19 Jul 94	Balaji, et al.	364	500	14 Dec 90
MD.	P2	5,500,807	19 Mar 96	Lavin, et al.	364	496	21 Feb 92

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
	F1							

OTHER PUBLICATIONS (including Author, Title, Date, Pertinent Pages, Etc.)

MD.	D1	ADAMS et al., "Cross-validated maximum likelihood enhances crystallographic simulated annealing refinement," Proc. Natl. Acad. Sci., Vol. 94, pp. 5018-5023, 1997
MD.	D2	APRILETTI et al., "Expression of the Rat α1 Thyroid Hormone Receptor Ligand Binding Domain in Escheria coli and the Use of a Ligand-induced Comformation Change as a Method for its purification to Homogeneity," Protein Expr. Purif., Vol. 6, pp.363-370, 1995
MD.	D3	BERRY et al., "Role of the two activating domains of the oestrogen receptor in the cell-type and promoter-context dependent agonistic activity of the anti-oestrogen 4-hydroyamoxifen," EMBO J., Vol. 9, No. 9, pp. 2811-2818, 1990
MD.	D4	BOURGUET et al., "Crystal Structure of the Ligand-binding domain of the Human Nuclear Receptor RXR-α," Nature, Vol. 375, pp. 377-382, 1995
MD.	D5	BRZOZOWSKI et al., "Molecular Basis of agonism and Antagonism in the oestrogen receptor," Nature, Vol. 389, pp. 753-758, 1997
MD.	D6	CHANG et al., "A Thyroid Hormone Receptor Coactivator Negatively Regulated by the Retinoblastoma Protein," Proc. Natl. Acad. Sci. USA, Vol. 94, pp. 9040-9045, 1997
MD.	D7	COHEN et al., "Molecular Modeling Software and Methods for Medicinal Chemistry," J. Med. Chem., Vol. 33, No. 3, pp. 883-894, 1990
MD.	D8	COLLINGWOOD et al., "A Natural Transactivation Mutation in the Thyroid Hormone β Receptor: Impaired Interaction with Putative Transcriptional Mediators," Proc. Natl. Acad. Sci. USA, Vol. 94, pp. 248-253, 1997
MD.	D9	DESJARLAIS et al., "Using Shape Complementarily as an Initial Screen in Designing Ligands for a Receptor Binding Site of Known Three-Dimensional Structure," J. Med. Chem., Vol. 31, pp. 722-729, 1988

EXAMINER* MD DATE CONSIDERED 5/8/02

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NO.	D10	DING et al., "Nuclear Receptor-Binding Sites of Coactivators Glucocorticoid Receptor Interacting Protein 1 (GRIP1) and Steroid Receptor Coactivator 1 (SRC-1): Multiple Motifs with Different Binding Specificities," Molecular Endocrinology, Vol. 12, No. 2, pp.301-313, 1998
NO.	D11	ENG et al., "Probing the Structure and Function of the Estrogen Receptor Ligand Binding Domain by Analysis of Mutants with Altered Transactivation Characteristics," Molecular and Cellular Biology, Vol. 17, No. 8, pp. 4644-4653, 1997
NO.	D12	FARMER, "Drug Design," Ariens, E.J., ed., Vol. 10, pp. 119-143, Academic Press, NY, 1980
NO.	D13	FUREY et al., "'Phases' - A Program Package for the Processing and Analysis of Diffraction Data From Macromolecules," Am. Crust. Assoc. Mtg. Abstr., PA 33, Vol. 18, pp. 73, 1990
NO.	D14	GLASS et al., "Nuclear Receptor Coactivators," Curr. Opin. Cell Bio., Vol. 9, pp. 222-232, 1997
NO.	D15	GREENE et al., "Monoclonal Antibodies to Human Estrogen Receptor," Proc. Natl. Acad. Sci. USA, Vol. 77, No. 9, pp. 5115-5119, 1980
NO.	D16	GREENE et al., "Purification of T47D Human Progesterone Receptor and Immunochemical Characterization with Monoclonal Antibodies," Molecular Endocrinology, Vol. 2, No. 8, pp. 714-726, 1988
NO.	D17	HEGY et al., "Carboxymethylation of the Human Estrogen Receptor Ligand-Binding Domain-Estradiol Complex: HPLC/ESMS Peptide Mapping Shows That Cysteine 447 Does Not React With Iodoacetic Acid," Steroids, vol. 61: 367-373 (1996)
NO.	D18	HEERY et al., "A Signature Motif in Transcriptional Co-activators Mediates Binding to Nuclear Receptors," Nature, Vol. 387, pp. 733-736, 1997
NO.	D19	HENTTU et al., "AF-2 Activity and Recruitment of Steroid Receptor Coactivator 1 to the Estrogen Receptor Depend on a Lysine Residue Conserved in Nuclear Receptors," Molecular and Cellular Biology, Vol. 17, No. 4, pp. 1832-1839, 1997
NO.	D20	HONG et al., "GRIP1, a Novel Mouse Protein That Serves as a Transcriptional Coactivator in Yeast for the Hormone Binding Domains of Steroid Receptors," Proc. Natl. Acad. Sci. USA, Vol. 93, pp. 4948-4952, 1996
NO.	D21	HONG et al., "GRIP1, a Transcriptional Coactivator for the AF-2 Transactivation Domain of Steroid, Thyroid, Retinoid, and Vitamin D Receptors," Molecular and Cell Biology, Vol. 17, No. 5, pp. 2735-2744, 1997
NO.	D22	HORWITZ et al., "Nuclear Receptor Coactivators and Corepressors," Molecular Endocrinology, Vol. 10, pp. 1167-1177, 1996
NO.	D23	JANKNETCHT et al., "Rapid and Efficient Purification of Native Histidine-tagged Protein Expressed by Recombinant Vaccinia Virus," Proc. Natl. Acad. Sci. USA, Vol. 88, pp. 8972-8976, 1991
NO.	D24	JURUTKA et al., "Mutations in the 1,25-Dihydroxyvitamin D_3 Receptor Identifying C-Terminal Amino Acids Required for Transcriptional Activation That are Functionally Dissociated from Hormone Binding, Heterodimeric DNA Binding, and Interaction with Basal Transcription Factor IIB, in Vitro," J. Biol. Chem., Vol. 272, No.23, pp. 14592-14599, 1997
NO.	D25	KAKIZAWA et al., "Ligand-dependent Heterodimerization of Thyroid Hormone Receptor and Retinoid X Receptor," J. of Biol. Chem., Vol. 272, No. 38, pp. 23799-23804, 1997

EXAMINER* DATE CONSIDERED

5/4/00

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WD.	D26	KAMEI et al., "A CBP Integrator Complex Mediates Transcriptional Activation and AP-1 Inhibition by Nuclear Receptors," Cell, Vol. 85, pp. 403-414, 1996
WD.	D27	KUIPER et al., "Comparison of the Ligand Binding Specificity and Transcript Tissue Distribution of Estrogen Receptors α and β," Endocrinology, Vol. 138, No. 3, pp. 863-870, 1997
WD.	D28	KUNTZ, "Structure-Based Strategies for Drug Design and Discovery ," Science, Vol. 257, pp. 1078-1082, 1992
WD.	D29	KUSSIE et al., "Structure of the MDM2 Oncoprotein Bound to the p53 Tumor Suppressor Transactivation Domain," Science, Vol. 274, pp. 948-953, 1996
WD.	D30	LANDEL et al., "Estrogen Receptor Accessory Proteins Augment Receptor-DNA Interaction and DNA Bending," J. Steroid Biochem. Molec. Bio., Vol. 63, pp. 59-73, 1997
WD.	D31	LANDEL et al., "The Interaction of Human Estrogen Receptor with DNA Is Modulated by Receptor-Associated Proteins," Molecular Endocrinology, Vol. 8, pp. 1407-1419, 1994
WD.	D32	LANZENNEC et al., "Mechanistic Aspects of Estrogen Receptor Activation Probed with Constitutively Active Estrogen Receptors: Correlations with DNA and Coregulator Interactions and Receptor Conformational Changes," Molecular Endocrinology, Vol. 11, pp. 1375-1386, 1997
WD.	D33	LE DOUARIN et al., "A Possible Involvement TIF1α and TIF1β in the Epigenetic Control of Transcription by Nuclear Receptors," EMBO J., Vol. 15, No. 23, pp. 6701-6715, 1996
WD.	D34	LEE et al., "Thyroid Hormone Receptor Dimerization Function Maps to a Conserved Subregion of the Ligand Binding Domain," Mol. Endocrinol., Vol. 6, pp. 1867-1873, 1992
WD.	D35	LIN et al., "A Conformation Switch in Nuclear Horone Receptors Is Involved in Coupling Hormone Binding to Corepressor Release," Mol. Cell. Biol., Vol 17, No. 10, pp. 6131-6138, 1997
WD.	D36	MASUYAMA et al., "Evidence for Ligand-Dependent Intramolecular Folding of the AF-2 Domain in Vitamin D Receptor-Activated Transcription and Coactivator Interaction," Mol. Endocrinol., Vol. 11, pp.1507-1517, 1997
WD.	D37	MENG et al., "Automated Docking with Grid-Based Energy Evaluation," J. Computational Chem., Vol. 13, No. 4., pp. 505-524, 1992
WD.	D38	MUELLER et al., "Complex Heterocyclic Structures - A Challenge for Computer-Assisted Molecular Modeling," Bull. Soc. Chim. Belg., Vol. 97, pp. 655-667, 1988
WD.	D39	MURSHUDOV et al., "Refinement of Macromolecular Structures by the Maximum-Likelihood Method," Acta Cryst., Vol. D53, pp. 240-255, 1997
WD.	D40	NAVIA et al., "Use of Structural Information in Drug Design," Curr. Opin. Struct. Biol., Vol. 2, pp. 202-210, 1992
WD.	D41	NORMAN et al., "The Rat Growth Hormone Gene Contains Multiple Thyroid Response Elements," J. Biol. Chem., Vol. 264, No. 20, pp. 12063-12073, 1989
WD.	D42	NORRIS et al., "Enhancement of Estrogen Receptor Transcriptional Activity by the Coactivator GRIP-1 Highlights the Role of Activation Function 2 in Determining Estrogen Receptor Pharmacology," J. Biol. Chem., Vol. 273, No. 12, pp. 6679-6688, 1998

EXAMINER*	DATE CONSIDERED
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ND.	D43	O'DONNELL et al., "Thyroid Hormone Receptor Mutations that Interfere with Transcriptional Activation also Interfere with Receptor Interaction with a Nuclear Protein," Molecular Endocrinology, Vol. 5, pp. 94-99, 1991
ND.	D44	ONATE et al., "Sequence and Characterization of a Coactivator for the Steroid Hormone Receptor Superfamily," Science, Vol. 270, pp. 1354-1357, 1995
ND.	D45	RADHAKRISHNAN et al., "Solution Structure of the KIX Domain of CBP Bound to the Transactivation Domain of CREB: A Model for Activator: Coactivator Interactions," Cell, Vol. 91, pp. 741-752, 1997
ND.	D46	RENAUD et al., "Crystal Structure of the RAR-γ Ligand-Binding Domain Bound to All-trans Retinoic Acid," Nature, Vol. 378, pp. 681-689, 1995
ND.	D47	SAATCIOGLU et al., "Mutations in the Conserved C-Terminal Sequence in Thyroid Hormone Receptor Dissociate Hormone-Dependent Activation from Interference with AP1-Activity," Mol. Cell Biol., Vol. 17, No. 8, pp. 4687-4695, 1997
ND.	D48	SADOVSKY et al., "Transcriptional Activators Differ in Their Responses to Overexpression of TATA-Box-Binding Protein," Molecular and Cellular Biology, Vol. 15, pp. 1554-1563, 1995
ND.	D49	SEIELSTAD et al., "Analysis of the Structural Core of the Human Estrogen Receptor Ligand Binding Domain by Selective Proteolysis/Mass Spectrometric Analysis," Biochemistry, Vol. 34, pp. 12605-12615, 1995
ND	D50	SEIELSTAD et al., "Molecular Characterization by Mass Spectrometry of the Human Estrogen Receptor Ligand-Binding Domain Expressed in Escherichia coli," Molecular Endocrinology, Vol. 9, pp. 647-658, 1995
ND.	D51	SHIAU et al., "Activation of the Human Estrogen Receptor by Estrogenic and Antiestrogenic Compounds in Saccharomyces cereviviae: A Positive Selection System," Gene, Vol. 179, pp. 205-210, 1996
ND.	D52	SHIBATA et al., "Role of Co-activators and Co-repressors in the Mechanism of Steroid/Thyroid Receptor Action," Recent Prog. Horm. Res., Vol. 52, pp. 141-164, 1997
ND.	D53	SPENCER et al., "Steroid Receptor Coactivator-1 is a Histone Acetyltransferase," Nature, Vol. 389, pp. 194-198, 1997
ND.	D54	TAGAMI et al., "Nuclear Receptor Corepressors Activate Rather than Suppress Basal Transcription of Genes That Are Negatively Regulated by Thyroid Hormone," Molecular and Cellular Biology, Vol. 17, No. 5, pp. 2642-2648, 1997
ND.	D55	TANENBAUM et al., "Crystallographic Comparison of the Estrogen and Progesterone Receptor's Ligand Binding Domains," Proc. Natl. Acad. Sci. USA, Vol. 95, pp. 5998-6003, 1998
ND.	D56	TORA et al., "The Cloned Human Oestrogen Receptor Contains a Mutation which Alters Its Hormone Binding Properties ," EMBO J., Vol. 8, No. 7, pp. 1981-1986, 1989
ND.	D57	TORCHIA et al., "The Transcriptional Co-activator p/CIP Binds CBP and Mediates Nuclear-Receptor Function," Nature, Vol. 387, pp. 677-684, 1997
ND.	D58	UESUGI et al., "Induced α Helix in the VP 16 Activation Domain upon Binding to a Human TAF," Science, Vol. 277, pp. 1310-1313, 1996
ND.	D59	VERLINDE et al., "Structure-Based Drug Design: Progress, Results and Challenges," Structure, Vol. 2, pp. 577-587, 1994

EXAMINER* DATE CONSIDERED

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	D60	WAGNER et al., "A Structural Role for Hormone in the Thyroid Hormone Receptor," Nature, Vol. 378, pp. 690-697, 1995
	D61	WEBB et al., "Tamoxifen Activation of the Estrogen Receptor/AP-1 Pathway: Potential Origin for the Cell-Specific Estrogen-Like Effects of Antiestrogens," Mol. Endocrinol., Vol. 9, pp. 443-456, 1995
	D62	WHITE et al., "Ligand-Independent Activation of the Oestrogen Receptor by Mutation of a Conserved Tyrosine," EMBO J., Vol. 16, No. 6, pp. 1427-1235, 1997
	D63	WHITFIELD et al., "A Highly Conserved Region in the Hormone-Binding Domain of the Human Vitamin D Receptor Contains Residues Vital for Heterodimerization with Retinoid X Receptor and for Transcriptional Activation," Molecular Endocrinology, Vol. 9, pp. 1166-1179, 1995
	D64	WURTZ et al., "A Canonical Structure for the Ligand-Binding Domain of Nuclear Receptors," Nat. Struct. Biol., Vol. 3, No. 1, pp. 87-94, 1996
	D65	ZHU et al., "The Different Hormone-dependent Transcriptional Activation of Thyroid Hormone Receptor Isoforms Is Mediated by Interplay of Their Domains," J. Biol. Chem., Vol. 272, No. 14, pp. 9048-9054, 1997

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